

Grand Portage Reservation

Grand Portage Nonpoint Source Management Program: A Successful Program/Case Study

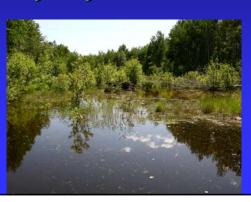
Brad Frazier, Director of Environmental Programs

Presented at the Tribal Nonpoint Source Program Workshop, October 9-11, 2007

Grand Portage NPS Management Program

How do you create a successful NPS program?

Everybody wants to know!



- -Obtain Eligibility
- -Start getting base funding
- -Teamwork required
- -Need Cooperators
- -Apply for competitive funding





Grand Portage NPS Management Program

Obtain Eligibility:

- -Write NPS Assessment Report
- -Write NPS Management Program
- -Get TAS status for CWA Section 319
- -Took about 4 years to achieve TAS in Jan 2005





- -Eligible for CWA Section 319 funding:
- -Then eligible to apply for NPS base funds and write competitive funds proposals
- -Thus far, GP has received 3 years base and 2 years of competitive funding





Grand Portage NPS Management Program

Apply for Base Funding

- -0.5 FTE NPS Coordinator
- -Attend workshops/obtain training
- -Work with cooperators and Tribal staff to prioritize and plan activities
- -Manage other NPS projects (EPA and NRCS funded)
- -Ensure construction projects utilize BMPs
- -Outreach/education for community and Tribal officials





Teamwork: Grand Portage Environmental Department

Amy Seitz, NPS Coordinator Margaret Watkins, Water Quality Stuart Oberg, Air Quality Andy Schmidt, Wetlands Victor Aubid, Env. Technician Summer Staff, Previous Staff

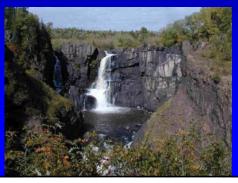




Grand Portage NPS Management Program

Cooperators

- -Natural Resources Conservation Service (NRCS)
 - **Paul Sandstrom**
 - **Jessica Olson**
- -Association of Metropolitan Soil & Water Conservation Districts
 - **Gregg Thompson**



Cooperators (cont.)

-Grand Portage Construction Company

-Others

Local, state, tribal staff/officials, private consultants



Grand Portage NPS Management Program

Other Support

- -Grand Portage Reservation Tribal Council
- -Community support



Apply for Competitive Funding

- -Grand Portage Reservation Watershed-Based Work Plan to Restore red Rock Creek (FY 2007)
- -Grand Portage Reservation Watershed-Based Work Plan to Restore Grand Portage Bay (FY 2008)

NRCS and Band Funding

-Grand Portage Lodge and Casino Rain Gardens Project



Grand Portage NPS Management Program

Important tips (secrets) for applying for Competitive Funding

Utilize data obtained with Section 106 funding to determine problem areas

Utilize your completed NPS Management Program to prioritize competitive projects



Important tips (secrets) for applying for Competitive Funding (cont.)

Justify importance of water resources in the proposal

Public water supply (Lake Superior)

Recreation

Subsistence

Other

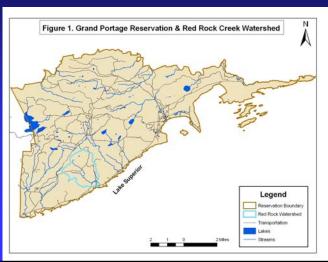
Follow Federal Register Exactly

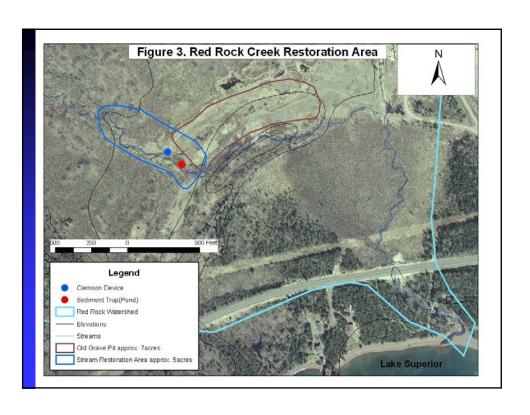
Include maps/figures



Grand Portage NPS Management Program Example

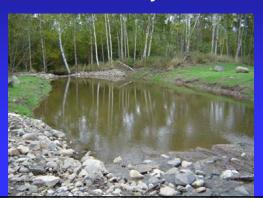
Grand Portage Reservation Watershed-Based Work Plan to Restore Red Rock Creek (FY 2007)







- **II. NPS Management Measures (outputs)**
 - -Grading and re-vegetating gravel pit
 - -In-stream sediment trap
 - -Vegetate riparian corridor
 - -Reduce beaver activity



Grand Portage NPS Management Program

- III. Water Quality Based Goals (outcomes)
 - -Turbidity 🕴
 - -D.O. **†**
 - -Macroinvertebrate diversity/numbers 1
 - -Fish habitat



Comparison of two upper reaches of stream for D.O. and temperature

	2000		2006	
	Mean D.O. mg/L	Mean Temp.	Mean D.O. mg/L	Mean Temp.
Red Rock Gravel Pit	8.40	13.93	8.36	14.19
Upper Hollow Rock (reference site)	9.87	11.05	10.55	11.09

Grand Portage NPS Management Program

Macroinvertebrate results for Red Rock and Hollow Rock Creeks below Highway 61

	2000			2006	
Site		% Diptera		% Diptera	
	%POET*	(true flies)	%POET	(true flies)	
Red Rock	37%	30%	20%	23%	
Hollow Rock (Reference Site)	95%	3%	93%	1%	

^{*} POET = Stonefly, Dragonfly, Mayfly, Caddisfly

IV. Technical Assistance

- -NRCS (Engineering/plans)
- -GP Construction (sediment trap/grading)
- -Contractors (plantings)
- -GP Biology dept. (beaver control)



Grand Portage NPS Management Program

V. Education Component

- -Community outreach/education
 - -Articles in newspaper
 - -Advertise assistance to community
 - -Posters and handouts at community events



VI. Activity Implementation Schedule

-Briefly re-list work plan commitments in a table

Activity	Start	End
Construct sediment control pool	July 1, 2007	August 1, 2007
	:	

Grand Portage NPS Management Program

VII. Milestones

- -Document progress as each activity is completed
- -Take lots of photos







Summary

- -Obtain Eligibility
- -Start getting base funding
- -Teamwork required
- -Need Cooperators
- -Tribal Council/Community support

Grand Portage NPS Management Program

Summary

- -Remember when applying for competitive funding
 - -Follow federal Register
 - -Justify importance of water resources
 - -Utilize your completed NPS management program to prioritize projects
 - -Utilize data obtained with Section 106 funds

The End

Questions?